

# sip

# newsletter

---

## society for invertebrate pathology

---

Volume IX, Number 4  
November 1977

### SIP X<sup>th</sup> ANNUAL MEETING

X<sup>th</sup> ANNUAL SIP MEETING  
East Lansing, Michigan; August 22-26, 1977

#### From the President

The Tenth Annual Meeting of the Society was held in conjunction with the American Institute of Biological Sciences at Michigan State University in East Lansing, August 21-27, 1977. The meeting was a great success in all respects, and we are indebted to Dr. N. Band of M.S.U. who kindly consented to look after local arrangements. The Society was allocated a very well-appointed meeting room in the Kellogg Center immediately adjacent to the Brody Hall residence complex; this eliminated the sometimes heroic route-marching associated with AIBS meetings. Several years ago, on a prominent mid-west campus (which shall be nameless), your President found himself (on foot) farther from food than the distance he daily drives from home to office.

The social and banquet was held in very pleasant surroundings and a brave show it was of beautiful women, handsome men, gracious conversation, etc., including a pleasant background of relaxing chamber-music (your President is clearly on the wrong side of 60).

Turning now to some items that were discussed at the Council Meeting and at the Annual Business Meeting it appears, in general, that the Society is in sound condition financially, and in respect to membership. A matter of concern is that about 1/3 of our members have not yet paid their dues for 1977. We feel that in most cases this is merely an oversight but it does generate much extra work for our Secretary and Treasurer. I would ask those of you who fall into this category to take appropriate action in your own interest and ours.

Plans for the 1978 meeting in Prague, Czechoslovakia are proceeding and we are awaiting the Second Announcement for program details, housing, etc. If you did not receive a copy of the first announcement, arrangements are being handled by Dr. J. Weiser, our Vice-President (c/o Institute of Entomology, Laboratory of Insect Pathology, Flemingovo N. 2, Prague 6, Dejvice, Czechoslovakia. Dr. John Briggs was in Prague earlier this year and he showed Council some pictures of the buildings on the agricultural campus where the meeting will be held. The first international meeting on insect pathology was held in Prague twenty years ago, so this will be an anniversary occasion. The Czechs proudly refer to Prague as the Mother of Cities and it abounds in striking and historic structures of great age and beauty.

For those who cannot attend the Prague meeting, a regional meeting (with AIBS) will be held August 20-25, 1978 in Athens, Georgia. In 1979, our Annual Meeting (XIIth) will be held on the campus of the University of Florida at Gainesville; dates are yet to be arranged.

Elsewhere in the Newsletter, the report of Dr. T. Cheng, Chairman of the Editorial Board and Editor of the Journal of Invertebrate Pathology appears. It is encouraging that there has been an increase in the numbers of Society members who have personal subscriptions to JIP. Council is of the opinion that an internationally circulated journal specializing in the field of invertebrate pathology is highly desirable. We are fortunate in our present arrangement with Academic Press for a prestige journal, the production costs of which do not have to be met directly by our Society. The financial viability of the Journal depends solely on personal and institutional subscriptions, and so again we encourage our membership to participate not merely in the spirit of intelligent altruism but as a personal contribution to the field of invertebrate pathology. Please consider that if JIP did not exist and reports of our work had to appear in a spectrum of journals, our "information-net" would be much less efficient and probably more costly in the long-run.

On a number of occasions members have suggested that SIP should have a logo. A difficulty is that our interests embrace all the ills (and causative factors and agents) that bedevil invertebrates, and so a simple universally evocative graphic presents a difficult design problem. Dr. Paschke is going to investigate a logo based on the use of the Society's initials.

Council devoted considerable time to the question of culture collections. This is almost a perennial matter, for although we are all agreed on the desirability, and even necessity, of permanent culture collections, we cannot come up with an easy answer to the who, where and how (mostly money) problems. Council has asked Drs. Heimpel, Briggs and Dulmage to prepare a report on this matter for later discussion.

The SIP draws its membership from a very wide variety of interests and disciplines. In such a Society it is essential that the executive be broadly representative, not simply of numbers, but of interests. At the moment, by accident mostly (and certainly not by design), we are in an insect pathology phase and many insect pathologists have written to me indicating their unhappiness with what they regard as a dangerous imbalance. The Council wholeheartedly

agrees, and we have asked the Nominating Committee to bear this in mind when preparing their slate. I feel that recognition of the problem, frankly and openly, can help us find an acceptable solution.

By instruction of Council 1,500 copies of this issue of the Newsletter are being printed; this is about 800 more than usual. The extra copies will be used in a mailing campaign for new memberships. You can assist the Secretary in this project by supplying him with the names and addresses of potential new members. This is not a "bigger is better" notion but recognition of the fact that we have been relying for publicity mostly on a word of mouth approach. In many cases, new members seem to stumble across the Society. The complimentary issues will also include a special letter of invitation from the Council and an application form.

As a final item, some members have expressed interest in formation of a Division on Microbial Control. May I encourage those who have asked for this to draw up a constitution and by-laws for approval by Council. Within the Society there is a Division of Microsporida, and their structure might provide a suitable organizational format.

T. A. Angus

INTERNATIONAL COLLOQUIUM ON INVERTEBRATE PATHOLOGY AND  
Xth ANNUAL MEETING, SOCIETY OF INVERTEBRATE PATHOLOGY,  
Prague, Czechoslovakia, September 11-17, 1978

The International Colloquium on Invertebrate Pathology and the Eleventh Annual Meeting of the Society for Invertebrate Pathology will convene in Prague, Czechoslovakia, September 11-17, 1978. The program will include 6 major sections and 4 symposia, poster sessions and round-table discussions. The sections (1-6) and symposia (7-10):

1. Invertebrate viruses
2. Bacterial pathogens
3. Fungi of invertebrates
4. Protozoa of invertebrates
5. Nematodes in invertebrates
6. Safety testing, activity evaluation and standardization of biopreparations
7. Biological control and diseases of vector invertebrates
8. Immunity, defense mechanisms and neoplasms in invertebrates
9. Current world status of microbial control, preparations, requirements of environment protection
10. Introductions and colonizations, release of pathogens.

A round-table on microsporida is planned; additional round-table topics and objectives are invited.

Your intention to present contributions are invited. On the basis of the responses, the activities of the sections and symposia will be organized. An immediate indication of your intent to attend and to participate in specified sections and symposia (items 1-10) is important. Please specify the section of participation (items 1-6) and provide a title and abstract before January 31, 1978.

Abstracts of the symposial contributions will be printed in a Transaction volume. Abstracts of submitted papers will be printed in a preliminary volume. English or Russian are preferred for the drafting of summaries and their oral presentation.

#### Preparation of Abstracts:

The Abstracts of the Annual Meeting of the Society for Invertebrate Pathology will be prepared by direct reproduction of the abstract submitted by each author. There will be no editing of the author's copy. Thus, every error which appears in the submitted abstract will also appear in the printed Abstracts. The Program Chairman recommends the following procedure for the preparation of the abstract:

Use a typewriter, preferably electric, with a carbon ribbon. If such a typewriter is unavailable, use a typewriter with a fairly new black ribbon.

Place the enclosed sample abstract form under a blank typing sheet, and insert in the typewriter. The dark lines will show through the usual grades of typing paper.

Single space all typing. The title, authorship, affiliation, and text must be within the boxes as outlined on the enclosed sample form. Leave no top or left margin within the boxes. Type only within the space outlined on the sample form. Each abstract must be limited to one single page.

The Style Manual for Biological Journals, published by the American Institute of Biological Sciences, should be used as a guide to abbreviations and symbols. Proprietary and trade names must be accompanied, at first mention, by the established or generic names. When using abbreviations for compounds, the name must be spelled in full at the first mention.

Remember! Your abstract will be printed exactly as submitted. Any smudges, errors, and misspellings on your copy will be evident also in the published Abstracts!

Poorly typed abstracts, unsuitable for direct reproduction, will be returned to the authors for retyping. Unless these abstracts are retyped promptly, they may miss the printer's deadline and may not appear in the published Abstracts.

Send your abstract no later than January 31, 1978 to Dr. J. Weiser, Department of Insect Pathology, Institute of Entomology, Acad. Sci., Prague 6, Flemingovo n.z, Czechoslovakia.

#### Travel Arrangements:

The opportunity to attend international meetings for virology, microbiology and parasitology in Europe in 1978 was suggested in the July 1977 Newsletter. SIP-Prague participants from outside Europe can be expected to be able to take advantage of charter flights or other group arrangements as the result of the initiatives taken by the relatively large microbiology and parasitology organizations in which many invertebrate pathologists are members also. The Newsletter will announce these opportunities as they are available. In addition, the Society will attempt to obtain travel support for which members will be eligible.

An essential item for most of us is to have the visa for travel to Czechoslovakia in our valid national passports. The details for obtaining visas for each country to be visited can be obtained from the Visa section of the Embassy for each country to be visited which require a visa. For example, in the United States, applications for visas for travel to Czechoslovakia and Poland can be obtained as the result of individual requests to:

Czechoslovakian Embassy  
Visa Office  
3900 Linnean Avenue, N.W.  
Washington, D.C. 20008  
Telephone (202) 363-6308

Polish Embassy  
Consulate Division for Visas  
2224 Wyoming Avenue, N.W.  
Washington, D.C. 20008  
Telephone (202) 234-3800

Accommodations:

The Agricultural College Campus Prague-Suchdol housing the meeting is close to the Hotel International where the First International Conference on Insect Pathology was held in 1958. A dormitory with 250 beds in double rooms is reserved for the members of the meeting. The meeting rooms are in the building of the Agronomy faculty in front of the Dormitory; the Campus cafeteria will serve the meals. Two bus lines connect the Campus with the tramway station in front of the International Hotel and with the Metropolitan A-line.

Registration:

The registration form is included with indicated costs of 400.-, 250.- and 150.- Kcs respectively in local currency payable on arrival. Currency exchange is possible at any international hotel, at the Prague airport or at the banks. During registration a bank service will be provided at the campus. The proposed registration fee will cover the printing costs of the Abstracts volume and the other expenses of the organizing committee such as renting of meeting rooms, general service, amil, etc. Accommodation in Prague outside the Campus is rather difficult, and is reserved for travel agencies from abroad, tourist groups, etc. The dormitory on the Campus is available for a total fee of 140.-Kcs per person per day for accommodation and meals. Current rate of exchange is \$1 = 9.- Kcs.

X<sup>th</sup> ANNUAL BUSINESS MEETING MINUTES  
Tuesday, August 23, 1977

President Angus called the meeting to order at 1:00 p.m.

Secretary Brooks gave a perusal of the minutes of the IX Annual Business Meeting held in Kingston, Ontario, in 1976. They were adopted as read (motion by Tanada, second by Rosenfield).

Treasurer Paschke reported \$14,294.05 in receipts, included \$3,667.21 forward from the preceding year. Expenditures were \$10,010.26 leaving a balance on hand of \$4,283.79. As several invoices had been received since the preparation of the financial account on June 30, 1977, the balance is actually lower than presented. Of the approximately 625 Society members, about 1/3 still have not paid their dues for 1977. The report was approved as presented (motion by Heimpel, second by Farrens).

Permanent Program Committee Chairman, Rosenfield, reported that his committee had met five times during the year and that his committee had also served as the Local Program Committee for the Michigan meeting. The XIth Annual Meeting will be coordinated by J. Weiser and will be held September 11-17, 1978 in Prague, Czechoslovakia. This meeting will commemorate the 20th anniversary of the First Insect Pathology Conference. A regional meeting will also be planned in conjunction with the AIBS annual meeting August 20-25, 1978, Athens, Georgia. Rosenfield also reported that the Council had accepted an invitation from the University of Florida, Gainesville, to host the 1979 XIIth Annual Meeting of the SIP. Invitations are being received for the XIIIth Annual Meeting in 1980

but no decision has been made on a site for this meeting. The report was approved as presented. (Motion by Henry, second by Goodwin.)

President Angus introduced the Local Arrangements Committee Chairman, N. Band, who made a few remarks relative to the Society banquet. Dr. Band was commended for a job well done.

Dr. T. Cheng gave a brief perusal of his Editorial Board Report. Receipt and acceptance of manuscripts continues to be satisfactory. Institutional subscriptional rates for the Journal will be increased for 1978 while individual rates for all members, domestic and foreign, will be \$20 per volume. The number of individual subscriptions rose from 84 in 1976 to 125 in 1978 and the total number of subscribers is now 877. Well prepared manuscripts can be expected to be published in about 6-7 months. With the approval of the editorial board, applied papers of good science will be accepted for publication in the Journal. Editorial Board will decide on an individual basis if papers on safety of microbial agents are suitable for publication. In the future, reviewers and editorial board members are to be supplied with a sheet of criteria for the review of papers. Reviewers will strive to be more rigorous and will be asked to respond within 2-3 weeks if they are unable to review a manuscript. Discussion was generated on the length of time involved in getting a manuscript published in the Journal. Cheng pointed out that the Journal continues to use the receipt date and not the date of acceptance and that most delays were due to the revisional efforts of the authors. Guidelines set by Academic Press were discussed by Cheng. These exclude publication of letters to the editor, proceedings of conferences, reviews, and minutes of annual business meetings. Editorials are publishable. Page charges will be replaced by editorial costs in the future and multiple-authored papers must be accompanied by letter of submittal signed by all authors.

Dr. Angus encouraged members to subscribe to the Journal and then covered the highlights of the Executive Council Meeting held Aug. 21, 1977.

1. The proposed dues increase for regular members was passed and dues will go up to \$7.00 per year in 1978 (U.S., including AIBS affiliation - \$8.00).
2. The SIP Newsletter editor, A. Domnas, was commended for an excellent job, publishing 4 issues and the program abstracts for the Michigan meeting. The November, 1977, post-meeting issue will be overprinted so that approximately 800 copies will be available to send out to prospective members. This issue will also include a message from the President and an application form for new membership in the SIP.
3. The appointment of Dr. M. Mix as an associate editor of the "Abridged Glossary of Terms Used in Invertebrate Pathology" was announced. The committee reported slow progress in preparing definitions of terms and translating them into English, French, German, Italian and Spanish.
4. The Council reaffirmed the need for a Society Logo and asked Dr. J. Paschke to work with his staff artist at Purdue to come up with additional examples based on the initials of the Society (SIP) for consideration at a later date.
5. President Angus will contact appropriate members to determine their possible interest in serving as the Society archivist and being responsible for a repository of Society correspondence, Newsletters and related material.

6. Several suggestions were considered related to the problem of subscriptions to the Journal of Invertebrate Pathology. These included the possibility of tying SIP dues with Journal subscriptions, starting a Society-owned journal and no change in present policy. A decision was reached that while Academic Press is free to consider such suggestions as page charges for non-subscribers, the Council was not interested in attempting to begin a new journal and was pleased with present arrangements. As long as Academic Press is willing to continue publishing the Journal, the Council will seek to help by encouraging members to take personal subscriptions.

7. A committee composed of Heimpel, Briggs and possibly Dulmage was appointed to prepare a report or recommendations on permanent culture collections for presentation to appropriate world agencies (FAO, WHO, etc.) for their consideration and suggestions.

8. The Council decided against formally preparing possible amendments to the Society Constitution and Bylaws to insure representation on the Council for minority groups. The Nominating Committee was made aware of the past problems and was encouraged to prepare a slate of nominees in accord with their best judgment. It was also pointed out that procedures exist in the Constitution and Bylaws for the membership at large to make nominations where desired.

9. A decision was made that publishing a new "Directory of Courses on Insect and Invertebrate Pathology" was not justified at this time due to limited utility and the projected cost.

10. No formal decision or counsel was offered on a proposal for a new Division on Microbial Control. If sufficient interest exists among members, they should meet, work out a Constitution and Bylaws and submit to Council for approval.

Announcements were made as to the availability of a limited number of proceedings of the Kingston Conference for \$17.50 each (from Dr. P. Faulkner) and that minutes of the Safety Workshop held the evening of Aug. 22 by Laird and Angus would be prepared and published in the SIP Newsletter.

J. Briggs presented some slides showing the facilities available for the XIth Annual Meeting at Prague and also presented an expanded explanation of the WHO Vector Control and Tropical Disease Program.

The meeting was adjourned at 3 p.m.

Wayne M. Brooks  
Secretary

#### SIP COMMITTEE REPORTS

##### Annual Report of the Editor-in-Chief Journal of Invertebrate Pathology

The Journal of Invertebrate Pathology continues to be healthy from the standpoint of manuscripts received and eventually published. During the period extending from July 1, 1976 to August 1, 1977, a total of 183 manuscripts were received for processing. This is comparable to the figure for the same period last year, which was 196. Of the manuscripts received this year, 109 were accepted for publication and have appeared or will soon be published. Of the remainder, 44 are still being processed, i.e., being reviewed or revised, and 30 have been rejected. The relatively low rejection figure speaks well for the scientific quality of the manuscripts that have been submitted.

Because of the continued inflation of production costs, your Editor was informed at the recent meeting held at the offices of Academic Press in New York and via a subsequent letter from Mrs. Roselle Coviello, Senior Vice President in charge of the Journal Division, that the institutional subscription rate for the Journal will be increased. However, at the urging of your Editor, the individual member subscription rate is to remain the same. Furthermore, the subscription rates for U.S. and foreign member subscribers has been slightly reduced. As indicated below, the rate per volume will be \$20.00 per volume for all members, domestic and foreign, and this figure will include the postage.

	Domestic	Foreign
Institutional per volume	\$46.00	\$ 55.00
Institutional per year	92.00	110.00
Member per volume	20.00	20.00
Member per year	40.00	40.00

It is thus apparent that the rising cost of production will be borne by libraries. This agreement was arrived at to encourage more individual subscribers.

Academic Press has provided us with some subscription figures. The number of institutional subscriptions as of June 30, 1977, is 752, as compared to 753 during the same period during 1975-76. The number of individual subscribers rose from 84 to 125 during the past year. Of the individual subscriptions, 86 were from residents of the U.S. and 39 were foreign.

For comparison, the total number of subscriptions since 1969 are as follows:

1969	---	822
1970	---	911
1971	---	855
1972	---	845
1973	---	939
1974	---	930
1975	---	837
1976	---	877

Although the total number of subscriptions has increased by 40, we still have not reached the 1200 mark required today for a journal to break even financially. It is noted, however, that because of a personal arrangement between the officers of Academic Press and your Editor, who also edits Experimental Parasitology for AP, there is no danger of JIP being terminated. Nevertheless, every member is urged to subscribe and also is being urged to request his or her institutional library to subscribe.

JIP remains the foremost journal for the publication of original research in the broad area of invertebrate pathobiology. As expected and as reflective of the discipline, papers dealing with insects still outnumber those pertaining to other groups of invertebrates, although the latter category of manuscripts continues to rise steadily.

JIP continues to be abstracted by Biological Abstracts and the Zoological Record. In addition, pertinent papers are being abstracted by Tissue Culture Abstracts and the title page is included in Current Contents.

Finally, the backlog of manuscripts is not great. The author of a perfectly written and composed manuscript can expect his or her manuscript to be published within 7 months. Unlike many other journals, we are still employing the original receipt date on all manuscripts rather than the final acceptance date, which some journals are doing. We believe that our practice is more honest and permits the author to establish precedence. However, the period between receipt and publication may appear unusually long in some instances. The reason for this is that some authors take unduly long to revise a manuscript. For example, one recent author took over two years to revise a manuscript.

In conclusion, the office of the Editor-in-Chief in cooperation with Academic Press, the owner and publisher, is doing our best to maintain a viable and prestigious journal being published under the auspices of the Society for Invertebrate Pathology.

Thomas C. Cheng  
Editor-in-Chief

SIP Financial Statement -  
October 1, 1976 to June 30, 1977

Receipts

Bank Balance, Lafayette National Bank		
Savings	\$1,667.21	
Checking	2,000.00	
		\$ 3,667.21
Membership Dues		
Regular	1,833.75	
Student	84.00	
Sustaining	100.00	
Microsporida Division	63.00	
		<u>2,080.75</u>
Journal Subscriptions		
Domestic	3,147.50	
Foreign	2,065.50	
Back orders including balance of payment vols. 25 and 26	973.35	
		<u>6,186.35</u>
A.I.B.S. Affiliation, Dues		<u>283.00</u>
1976 SIP Meeting Kingston, Ontario including adv. refund		<u>1,800.00</u>
Bank Interest		<u>84.41</u>
Miscellaneous		<u>192.33</u>
TOTAL	\$14,294.05	

Disbursements

1976 SIP Meeting, Kingston, Ontario, Program Abstracts, Hollenback Press		\$ <u>364.00</u>
A.I.B.S.		
Affiliation Charge	\$ 150.00	
Product Costs	226.92	
		<u>376.92</u>
Academic Press, Inc., Journals		<u>6,760.75</u>
Newsletter (Triangle Press)		<u>764.20</u>
Postage		
Microsporida Division Newsletter (Domestic and foreign)	40.00 836.89	
		<u>876.89</u>
Membership billing, etc. Mail ballot (Brooks)	210.00 150.00	
		<u>360.00</u>
Duplicating - Stationary		<u>185.65</u>
Honorarium, Bea Weaver		<u>250.00</u>
Miscellaneous (Secretarial)		<u>71.85</u>
TOTAL	\$10,010.26	
Balance on Hand June 30, 1977		<u>4,283.79</u>
TOTAL	\$14,294.05	

Of the approximately 625 Society members, 401 (31 students) have paid their annual dues. Eighty-nine members have requested domestic subscriptions and 44 have foreign subscriptions, a slight increase over 1976 Journal of Invertebrate Pathology orders.

A total of 58 of the above 401 members have paid dues to the Microsporida Division.

It is recommended that the Membership be made aware that many have not yet paid current dues and more pressure should be brought on the membership of the Society to support the Journal. In addition, we should bring about an increase in the membership dues.

J. D. Paschke  
Treasurer

Report of the Permanent Program Committee

The Committee met on five occasions over the past year to develop the program for this year's meeting and to formulate plans and activities for the 1978 meetings. The Committee, interacting with local committee representatives and officers of the American Institute of Biological Sciences, has brought about this year's scientific and social program.

The Committee has been in contact with Dr. Weiser through Dr. Briggs' S.I.P. representative to the International Union of Biological Sciences (IUBS) concerning the joint XIth Annual Society on Invertebrate Pathology meeting and the International Colloquium on Invertebrate Pathology to be held in Prague, Czechoslovakia, September 11-17, 1978. The 1978 Colloquium is being held in celebration of the 20th anniversary of the first Colloquium on Insect Pathology held in Prague in 1958. We are informed by Dr. Weiser that First Announcements and applications to the meeting and Colloquium have been sent to over 250 individuals and institutions, and thus far 46 completed applications have been returned. Dr. Weiser informed the Committee that costs for the meetings will be approximately \$50 (U.S.) for registration and \$15/day for room and board.

In addition to the Annual Meeting and Colloquium in Prague, there will also be a smaller North American meeting with the American Institute of Biological Sciences during the period of August 20-25, 1978, in Athens, Georgia, for those members unable to attend the official meetings in Prague. Plans are being made to develop a theme for the Georgia meeting.

Invitations to host the 1979 meetings were received by the Committee and site alternatives recommended to the Council. The Council approved the recommendation that the 12th Annual Meeting be held at the University of Florida, Gainesville, Florida, in 1979. Invitations continue to be received for the 1980 meetings. The Council will deliberate on site selection for 1980 at the Prague meetings.

The Committee recognizes the outstanding job performed in behalf of the Society by: the Chairman of the Local Committee, Dr. Neal Band, and the staffs of the American Institute of Biological Sciences and Michigan State University in making this year's meeting a success. The Committee acknowledges its gratitude to all of them.

The Committee also wishes to thank the organizers and convenors of the several Symposia, and to express its appreciation to the Chairmen of the contributed paper sessions.

R. Engler  
J. Harshbarger  
J. Henry  
A. Rosenfield (Chairman)

#### Division on Microsporida Activities Report

The Annual Business Meeting of the Division on Microsporida was held on August 24, 1977 at East Lansing, Michigan. Discussion centered mainly on the activities of the standing committees. The committee on techniques which is chaired by Dr. J. Maddox reported that arrangements have been finalized with the American Type Culture Collection for deposition of viable spores of Microsporida. The procedures for submitting the spores to the Collection will be outlined in a future newsletter. Reports from committees for data retrieval and type slides were not available. Action on whether to maintain the committee for developing an atlas of Microsporida ultrastructure was withheld due to the absence of the committee chairperson. The establishment of a new standing committee to coordinate the use of standardized terminology relating to the Microsporida was voted down.

Other action included the selection of a topic for a formal symposium to be presented under the auspices of the Division at the Colloquium to be held at Prague in 1978. The topic will be "Ultrastructure of the Vegetative Development in the Microsporida." The person selected to convene this symposium is being contacted and will be named in an upcoming newsletter. Members attending agreed that the Division also should sponsor a workshop in conjunction with the business meeting in 1978, but a decision was not made on the topic for the workshop.

The business meeting was followed by a workshop organized by Dr. L. Lewis on the formulation and application of Microsporida for applied uses. Contributions were presented by W. Brooks, J. Maddox, G. Wilson, L. Lewis and J. Henry.

J.E. Henry, Chairman  
Division on Microsporida

#### SIP Membership Committee Report

At the request of the treasurer and Chairman of the Membership Committee, J.D. Paschke, and in accordance with Article III - 14 of the Society Constitution and By-laws, the Secretary, Wayne Brooks, was requested to notify these members delinquent in payment of dues for two or more years that they were to be dropped from the Membership if they did not make proper payment of dues in arrears. The number of delinquent members approximated 150 carried on the mailing list as of June 30, 1976. Of the total numbers on delinquent list approximately 25 members wished to be reinstated.

Sixteen other members have resigned for various reasons since the above were notified of their delinquent status.

Since July 1, 1976 we have added 86 additional members to the Society which helps offset those individuals that were dropped.

The most recent up dated mailing list available to the committee carries a membership of 622. This number is approximately correct as of this date and is subject to addition and deletions since February 1977, but it does reflect the 125 delinquent members dropped from the rolls.

It is recommended that action be taken annually to delete non-paying members from the Society membership rolls.

G. Nordin  
J. Maddox  
J.D. Paschke, Chairman

#### SIP Newsletter Report

Four Newsletters were prepared and distributed during the period November 1976 to August 1977 at a cost of roughly \$1800, with an average cost per issue of \$450, which is somewhat of an increase for the comparable period 1975 to 1976. (See SIP Newsletter report Vol. VII, No. 4, November 1975.) Reasons for increases stem from overprinting of the November issue which was substantially reduced in later Newsletters. The removal of non-paying members from the mailing list also helped to bring down printing costs. The most significant cost increase can be traced to airmail rates in contrast to local (North American) postal rates.

In addition the abstracts for the Xth Annual meeting were distributed at the meeting.

Dr. K. Aizawa (Japan), Dr. S.V. Amonkar (India), Dr. L.P.S. van der Geest (Europe) and Dr. R. Teakle (Australia and New Zealand) are continuing to assist in the rapid delivery of the Newsletter to members outside of the U.S. and Canada.

The following members have graciously agreed to serve or continue to serve as regional correspondents.

K. Aizawa, Japan  
S.V. Amonkar, India  
H.D. Burges, United Kingdom  
H. Boman, Scandinavia  
P. Ferron, France  
B. Gabriel, The Philippines  
E. Jahn, Austria  
F. Jimenz-Millan, Spain  
R. Kenneth, Israel  
G. Kuno, Central America  
J.I.S. Pillai, New Zealand  
V. Pristavko, USSR  
J.E. Stewart, Canada  
R. Teakle, Australia  
L.P.S. van der Geest, The Netherlands  
C. Yamvrias, Greece

A.J. Domnas, Editor  
SIP Newsletter

#### FROM THE TREASURER

Approximately one third of the members of the Society have not paid their 1977 annual dues. Some of these members are also delinquent for 1976 dues. In order that we maintain a viable organization it is the responsibility of the membership to maintain their good standing by paying current and past dues.

At each annual meeting there are costs incurred by the Treasurer for local arrangements. These costs are paid from dues paid by the members and are necessary for the Society well being and are in addition to normal business.

The costs of producing and delivering each Newsletter issue have increased annually due to increases in postage and duplicating. Production costs and posting of the Newsletter are directly billed to the Society. Increases in dues as well as payment are required to help pay for these costs.

The Society Secretary and the Treasurer attempt to keep the members notified when they are in arrears for payment of dues. The Secretary is obligated to notify, as stated in the By Laws, those persons in arrears for 2 years will be dropped from the membership if they do not pay back dues and request reinstatement in the Society. All of these activities require time, volunteered time, as well as costs to the Society for the increased amount of postage, paper and duplicating services.

Currently the treasury needs the additional revenue which can be produced by those members delinquent for 1977, or in arrears for previous years. Your 1978 statement of annual renewal will be sent out later this year. The Treasurer will be more than happy to receive current (1977) dues. We need your help!

John D. Paschke

#### ACTIVITIES OF THE COMMISSION ON INVERTEBRATE PATHOLOGY FOR 1976/77 (Report Represented to the IUBS Secretariat)

In 1976 the Society for Invertebrate Pathology serving as the Commission on Invertebrate Pathology organized and conducted an International Colloquium at Queens College, Kingston, Ontario, Canada, 29 August - 2 September. The Colloquium facilities at Queens College, and the publication of the Proceedings were supported partially by the Society, the Canada Department of Environment and Queens College. Transportation costs for individuals from developing countries were paid partially by a subsidy awarded to the Society by the International Union of Biological Sciences. Attendance was 230 representing 15 nations. An International Colloquium is scheduled for Prague, Czechoslovakia in September 1978. The principal topic is to be the detection and development of micro-biological agents for use in integrated control of vectors of human diseases.

A planning meeting for a Scientific Working Group (SWG) on the biological control of vectors was convened by the World Health Organization Division of Vector Biology and Control from among Society members in attendance at the Colloquium in Canada.

The 13 individuals as members of the Society which serves as the Commission being aware that the Union is a non-governmental organization with respect to the WHO developed a status report on microbiological agents for vector control, their efficacy and safety for humans and other non-target organisms, and a tentative array of objectives for the organization of a SWG in the WHO Special Programme for Research and Training in Tropical Diseases. The Special Programme emphasizes research and institutional strengthening concerning malaria, filariasis, schistosomiasis, trypanosomiasis, leishmaniasis, and leprosy. The SWG for biological control of vectors (14 participants from USSR, Canada, USA, Czechoslovakia, Nigeria, France, and Sweden) will meet 5-9 September 1977. A meeting of the steering committee for the SWG is scheduled tentatively in Prague following the Colloquium in 1978.

A proposal for consideration by the Executive Committee of the Union in 1977 will be submitted in late August with the endorsement of the governing Council of the Society for Invertebrate Pathology. A draft of the proposal was approved by council members by mail. The proposal embodies a plan for conspicuous labelling, and the identification of the geographical and national location of type materials for micro-organisms. The proposal solicits the endorsement of the Union for encouragement of professional societies to join with national governmental agencies, through the respective academies of sciences, for the protection and continuity of these unique "national resources" which are frequently lost for lack of stewardship.

The regular publications of the Society are the Journal of Invertebrate Pathology and the Newsletter. In 1977 two separate publications were completed for which contributions were solicited from Society members internationally. These publications are: Biological Regulation of Vectors, John D. Briggs (ed.), U.S. Department of Health, Education, and Welfare, National Institutes of Health, 174 pp. and, Bibliography on Pathogens of Medically Important Arthropods, D.W. Roberts (ed.), Supplement to Bull. Dld. Hlth. Organiz., In Press.

J.D. Briggs  
Representative, IUBS

#### WHO Scientific Working Group

The first meeting of the Scientific Working Group on the Biological Control of Insect Vectors of Disease convened in Geneva, 5-9 September. Participants included 16 individuals from Sweden, France, Canada, Nigeria, Czechoslovakia, the United States, New Zealand, and the Soviet Union. The Working Group is one of 9 serving the new special program for research and training in tropical diseases. The Working Groups include those for each of the diseases receiving attention in the special program (malaria, filariasis, trypanosomiasis, leishmaniasis, schistosomiasis, and leprosy), epidemiology, Biological Control of Vectors, and institutional research capability strengthening. All of the Working Groups will have met once in 1977 to set forth specific plans to achieve long range objectives through sets of short term goals on annual bases. The plans for all aspects of the special program should be announced to the scientific community in 1977. Financial support to achieve specific goals should be available on successful application to the Secretary of one of the Scientific Working Groups. Inquiries on all aspects of the special program can be addressed to a particular Working Group or to the Program Director. If you are in doubt as to how and when you or your institution can participate, write today. The address for any of the persons mentioned above:

Special Programme  
World Health Organization  
1121 Geneva 27 Switzerland

Dr. J. Weiser (President-Elect of the Society) is now serving as Chairman of the Biological Control of Vectors Group, and is Chairman of the Steering Committee for the Working Group.



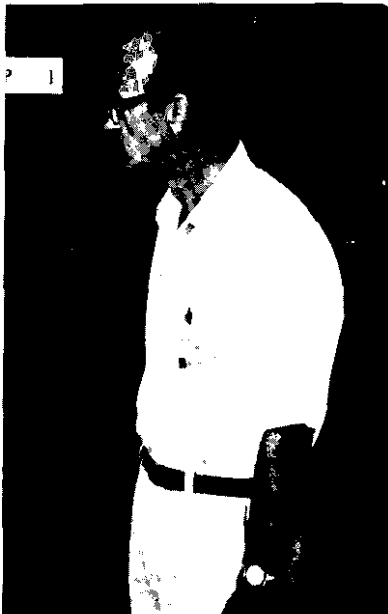
Members of the Scientific Working Group on the Biological Control of Vectors and WHO staff, Geneva. Left to right: Pillai, Chapman behind Engler, Singer, Cali, Hamon (Director of the Division of Vector Biology and Control), Roberts, Lucas (Director of the WHO Special Program), Matanmi, Shaddock.



Vinson, Brooks, Harper



K. Söderhäll and I. Faye



N. Band



Clockwise: J.D. Paschke, A. Heimpel, S. Singer, E. Davidson, T. Angus, T. Cheng, A. Sparks

AN ABRIDGED GLOSSARY OF TERMS USED IN  
INVERTEBRATE PATHOLOGY  
Report of the Editor (1976-1977)

A. Editorial Committee Membership

During 1976 Dr. Michael C. Mix, a member of the Committee since its inception, was offered and accepted the Editor's invitation to serve as Associate Editor for the Third Edition of the Glossary. Dr. Mix will be in charge of coordinating work in the area of terminology covering invertebrates other than insects, especially the pathology of molluscs and crustaceans.

A current list of members of the Committee and their addresses is attached.

B. Work Progress

1. Definitions

The task of defining those entries accepted by the Committee is continuing with the cooperation of several specialists. The definitions of about 50 new terms have been completed and reviewed thus far. An estimated 80 additional terms are in the process of being defined. This process is sometimes very slow, as it requires correspondence with several specialists, many of them located overseas.

2. Translations

All translations have been received. Early this year the Editor and his secretary typed the main entries and their synonyms (in English, French, German, Italian, and Spanish) on specially printed cards. This involved collating the original Glossary entries with the four translations and typing each term, with a multilingual typewriter element, on the cards (600 cards have been completed thus far). We plan to process these by computer later this year. I am considering using a new IBM computer capable of handling upper and lower case, and possibly also some of the diacritical marks.

3. Future Plans

Our work will continue slowly, as it is largely accomplished during the Editor's "spare time." In the meantime, the Second Edition of the Glossary (1970) is still very much in demand, and we will distribute it as long as the supply lasts.

M. E. Martignoni  
Glossary Editor



#### Proposed Regional Research Project for Microbial Control

A meeting of 21 persons representing both state and Federal research units from across the United States was held in Atlanta, Georgia on July 12-13, 1977 to develop a proposal for a Cooperative State Research Service (CSRS) regional research project to be tentatively titled "Development and Integration of Microbial Agents in Pest Management Systems." The group's main goal was to establish a working mechanism which will enable efficacy data for both new and promising pathogens to be developed as rapidly and efficiently as possible to the point of submission for Federal registration. Further, the group will seek mechanisms to most efficiently develop data which will lead to the incorporation of these agents into viable pest management systems.

The objectives outlined at this meeting were as follows:

- I. Evaluation of the efficacy of microbial agents for pest control, including:
  - a. preparation of standard test materials
  - b. coordination of small and large scale field tests
  - c. development of methods for increasing the efficacy of microbial preparations
- II. Integration of microbial control agents in pest management systems.
- III. Stimulate cooperation with private, industrial and federal agencies in areas relating to safety evaluation, production and commercial utilization of microbial agents.

The proposed project will be submitted as a regional research project within the southern region of the CSRS but will seek to achieve cooperation among scientist from state private and Federal agencies from the entire U.S.A.

Organizational structure was determined by the participants. Each cooperating state will have one representative on the technical committee. In addition S. Y. Young was voted Chairman-Coordinator, J. D. Harper, Secretary, and W. Brooks, Representative-at-Large to the technical committee. Four subcommittees were established on development of viruses, protozoa, fungi and bacteria. W. C. Yearian, W. Brooks, C. McCoy, and J. D. Harper were appointed as chairmen of these respective subcommittees.

George Allen was present as the CSRS representative to this organizational group and Dr. Lloyd Warren from the University of Arkansas was present as the administrative advisor for the Southern Regional Directors.

Each subcommittee chairman was given the responsibility of contacting scientists thought to be interested in such a cooperative effort. Their suggestions and input is to be pooled into a final proposal which will be submitted for approval by CSRS and the Southern Regional Directors in February, 1978.

A second meeting of the chairman and subcommittee chairmen was held in Atlanta on October 27 to finalize this proposal. Anyone interested in further information relative to this project should contact Dr. S. Y. Young III, Department of Entomology, University of Arkansas, Fayetteville, Arkansas.

#### A Catalog of Viral Diseases of Insects and Mites

Lists of addenda (new disease records for previously listed hosts and new host records) are prepared twice or three times yearly. The latest list of additions was compiled during July 1977. Catalog users who would like to update the list of hosts and viral diseases should request "Addenda to PNW-40" and enclose a self-addressed adhesive mailing label.

Please send requests to Dr. Mauro E. Martignoni, Forestry Sciences Laboratory, 3200 Jefferson Way, Corvallis, Oregon 97331, USA.

#### Workshop on Chalkbrood Disease of Bees

Chalkbrood disease of bees, thought to be caused by the fungus *Ascosphaera apis*, has been reported from Europe for many years. However, it was not found in bees in the U.S. until recently and is now widespread in the U.S. and Canada.

On February 8, 1977, a Workshop on Review and Coordination of Chalkbrood Research in the U.S. and Canada was held in Tucson, Arizona. Sixteen researchers representing U.S. Department of Agriculture, Agriculture Canada, and state universities and experiment stations in the U.S. attended. Topics of discussion included losses of honey bees and leaf cutter bees chalkbrood, etiology, strain differences in *Ascosphaera* spp., predisposing factors, transmission, methods of infecting bees with *A. apis* and control measures. The participants selected nine projects on chalkbrood disease that require immediate research efforts to aid in understanding and controlling the disease. Each participant then agreed to work on one or more specific projects.

Martha Gilliam  
USDA Bee Research Lab.  
Tucson, Arizona

#### Molluscan Pathology Colloquium

Scientists from 18 countries conferred 9-12 September in Perpignan, France on the parasites, diseases, and pathologies associated with mollusks. More than 100 individuals participated in the international colloquium organized by the Société Française de Malacologie under the auspices of the World Health Organization, du Centre National Pour L'Exploitation des Océans, de L'Institut National de la Recherche Agronomique, de L'Institut Scientifique et Technique des Pêches Maritimes.

Professor C. Vago served as President of the Colloquium. The superb organization and conduct of the Colloquium was the responsibility of Professor C. Combes, Département de Biologie Animale, Centre Universitaire, Perpignan; and Dr. J.R. Bonami, Laboratoire de Pathologie Comparée, Université des Sciences et Techniques du Languedoc, Montpellier.

Proceeding of the Colloquium are to be published immediately by the Société Française de Malacologie.

#### Course on Insect Pathology at Kansas State University

A new course on Insect Pathology (Entomology 785) is offered by Dr. W.A. Ramoska, Department of Entomology, Waters Hall, Manhattan, Kansas 66506. It consists of a study of infectious and non-infectious diseases of insects. Prerequisites are Introductory Microbiology and General Entomology with laboratory. The course is destined for upper level undergraduate and graduate students and will be offered in the Fall semester of odd numbered years.

Invertebrate Pathology in Greece

During the months of May and June, biological control testing which had been started several years ago was continued with the bacterial preparations of Bacillus thuringiensis against the olive tree moth (Prays oleae). Although dosages were smaller than the usual employed, results were still quite satisfactory. This will permit a lowered cost in the practical application of microbiological control of the microlepidopteran, which is a serious threat of the olive tree in the region of the Mediterranean basin.

A very significant decrease in the insect population was obtained following treatment by B. thuringiensis preparations on the insect in the flower phase, and as a consequence, a lowering of fallen fruit, and in comparison to those trees which served as controls and were unsprayed with bacterial preparation.

These experiments were under the direction of Dr. C. Yamvriasis, of the Benaki Phytopathological Institute and Dr. E.C. Young, Manager of the FAO project on the control of olive pests in Greece.

Four presentations on topics of Pathology and Microbiology and applications to biological control were given at a seminar for plant protection in December 1976 for Agricultural Officers of the Agricultural Service.

OBITUARY

The news has just reached us that Professor Enrico Masera died in Padova, Italy, on July 4, 1977. He was 74 years old. Our Society had elected him to honorary membership in 1968. He was our first honorary member and this was a source of pride and great pleasure both to him and to us.

Enrico Masera was pathologist at the Sericultural Experiment Station in Padova (Stazione Bacologica Sperimentale "E. Verson") and Professor at the University of Padova, where he taught sericulture and apiculture. He retired in 1967 as Director of the Experiment Station. About half of Professor Masera's over 200 papers are scientific publications, covering pathology of the silkworm and of other insects, particularly mycoses, pebrine and flacheries. He published extensively on silkworm physiology, with emphasis on the dorsal vessel, digestive system and cocoon formation. He also investigated the economic aspects of sericulture as well as the history of sericulture in Italy and throughout the world. Among the major contributions of Professor Masera is the thorough study of the microbial flora of the intestinal tract of the silkworm ("Sul contenuto microbico intestinale del baco da seta e sull'etiologia della flaccidezza," Agric. Venezia 8, 714-735, 1954). On the basis of Masera's careful analysis, the flacherie complex can now be subdivided into a number of distinct morbid entities with characteristic syndromes.

Professor Masera was the author of the only extant Italian treatise on insect pathology ("Le malattie infettive degli insetti," Licinio Cappelli, Publisher, Bologna, 1936). This treatise contributed significantly to the development of insect pathology, particularly in Europe. Along with S. Metalnikov, G.F. White, A. Paillet, R.W. Glaser, and E.A. Steinhaus, Enrico Masera can certainly be considered one of the founders of modern insect pathology.

Professor Masera was a member of the "Società dei Naturalisti di Padova," of the "Unione Zoologica Italiana," and of the "Società Italiana di Genetica Agraria."

Enrico Masera is survived by his wife, his sister, and two daughters. According to his wishes, he is buried in the small cemetery of San Lorenzo in Banale, surrounded by the magnificent mountains of Trento, the region where he was born and which he dearly loved.

Mauro E. Martignoni

BOOK REVIEWS

NEW TITLES

Parasitology - The Biology of Animal Parasites.

Fourth ed. Elmer R. Noble and Glen A. Noble. Lea & Febiger Co., Philadelphia, 1976, 566 p., \$19.50.

Reviewed by G.R. Healy in American Society for Microbiology News. Vol. 43, #7, p. 384, July 1977.

Ecological Aspects of Parasitology. C.R. Kennedy,

Editor. North Holland Publishing Company, Amsterdam, 1977, 468 p., \$59.25.

Reviewed by M.D. Little in American Society for Microbiology News. Vol. 43, #8, p. 461, August 1977.

Medical Mycology, 3rd Edition. Chester W. Emons,

Chapman H. Binford, John P. Utz, and K.J. Kwon-Chung. Lea and Febiger, Publishers, Philadelphia, 1977, 592 p., \$19.50.

Reviewed by N.L. Goodman in American Society for Microbiology News. Vol. 43, #8, p. 459, August 1977.

NEW PUBLICATIONS

Schistosomiasis. A Publication of the Geographic Health Studies, John E. Fogarty International Center for Advanced Study in the Health Sciences, 1977. DHEW Publication no. (NIH) 77-1290, Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 172 p.

Parasite Invasion. Symposia of the British Society for Parasitology. Volume 15. Edited by Angela E.R. Taylor and Ralph Muller. Blackwell Scientific Publications, Oxford, 1977, 155 p., \$13.

MEETING

International Congress of Infectious and Parasitic Diseases (7th). Varna, Bulgaria. October 2-6, 1978.

Organizing Committee, 26, Vl. Zaimov Bld., P.O.B. 33, 1504 Sofia, Bulgaria.

ERRATUM

The last edition of the Newsletter was misnumbered and should be Volume IX, Number 3, June 1977.

SIP NEWSLETTER

A. J. Domnas, Editor  
c/o Department of Botany  
The University of North Carolina  
Chapel Hill, North Carolina 27514 USA